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FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
02/05/2002	Hiroshi Okamoto	3914-4	6137
0 10/02/2003		EXAMINER	
Nixon & Vanderhye		LAMBERTSON, DAVID A	
1100 North Glebe Road 8th Floor Arlington, VA 22201-4714		ART UNIT	PAPER NUMBER
		1636	15
•		DATE MAILED: 10/02/2003	
	02/05/2002 10/02/2003 erhye the Road 8th Floor 22201-4714	02/05/2002 Hiroshi Okamoto 10/02/2003 crhye e Road 8th Floor 222201-4714	02/05/2002 Hiroshi Okamoto 3914-4 EXAM 10/02/2003 EXAM crhye E Road 8th Floor 22201-4714 ART UNIT 1636 DATE MAILED: 10/02/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

q.	Application No.	Applicant(s)			
Office Action Summers	10/009,178	OKAMOTO, HIROS	OKAMOTO, HIROSHI		
Office Action Summary	Examiner	Art Unit			
TI MAILING DATE CHI	David A. Lambertson	1636			
The MAILING DATE of this communication ap Period for Reply	parsontn covrsne	भ्रा With the correspondenc add	ress		
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, m ly within the statutory minimum will apply and will expire SIX (6) e, cause the application to become	nay a reply be timely filed of thirty (30) days will be considered timely.) MONTHS from the mailing date of this con me ABANDONED (35 U.S.C. § 133).	nmunication.		
1) Responsive to communication(s) filed on <u>15</u>	February 2002 .				
2a)☐ This action is FINAL . 2b)☑ TI	his action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims 4)⊠ Claim(s) 1-16 is/are pending in the applicatio	n				
4a) Of the above claim(s) is/are withdra		•			
5) Claim(s) is/are allowed.	iwii iioiii consideration				
6) Claim(s) is/are rejected.					
<u> </u>					
7) ☐ Claim(s) is/are objected to. 8) ☑ Claim(s) <u>1-16</u> are subject to restriction and/or election requirement.					
Application Papers	election requirement.				
9)☐ The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
 Certified copies of the priority documents have been received. 					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list 	reau (PCT Rule 17.2)	a)).	Stage		
14)☐ Acknowledgment is made of a claim for domest	ic priority under 35 U.S	S.C. § 119(e) (to a provisional a	application).		
 a) The translation of the foreign language prediction 15) Acknowledgment is made of a claim for domes 	• •				
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notic	view Summary (PTO-413) Paper No(s ce of Informal Patent Application (PTO r:	. —		

Art Unit: 1636

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1, 3-5, 7 and 14-16 (as they relate to the DNA and vector), drawn to a DNA molecule of SEQ ID NO: 1 or 3, vector comprising said sequences, host cell comprising said vectors, pharmaceutical compositions thereof, and method of making the protein encoded by said sequences.

Group II, claim(s) 2 and 14-16 (as they relate to the protein), drawn to a protein represented by SEQ ID NO: 2 or 4, and a pharmaceutical composition thereof.

Group III, claim(s) 6 and 14-16 (as they relate to the antibody), drawn to an antibody raised against the protein represented by SEQ ID NO: 2 or 4, and a pharmaceutical composition thereof.

Group IV, claim(s) 10 and 14-16 (as they relate to the compound that inhibits binding), drawn to a compound that inhibits the binding of Reg protein to the protein represented by SEQ ID NO: 2 or 4, and a pharmaceutical composition thereof.

Group V, claim(s) 13-16 (as they relate to the compound that promotes signal transduction), drawn to a compound that promotes signal transduction through the protein represented by SEQ ID NO: 2 or 4, and a pharmaceutical composition thereof.

Group VI, claim(s) 13-16 (as they relate to the compound that inhibits signal transduction), drawn to a compound that inhibits signal transduction through the protein represented by SEQ ID NO: 2 or 4, and a pharmaceutical composition thereof.

Group VII, claim(s) 8, drawn to a method of identifying a compound that binds to the protein represented by SEQ ID NO: 2 or 4.

Group VIII, claim(s) 9, drawn to a method of identifying a compound that inhibits the ability of Reg protein to bind to the protein represented by SEQ ID NO: 2 or 4.

Art Unit: 1636

Group IX, claim(s) 11-12, drawn to a method of identifying a compound that promotes signal transduction through activation of the protein represented by SEQ ID NO: 2 or 4.

Group X, claim(s) 11-12, drawn to a method of identifying a compound that inhibits signal transduction through activation of the protein represented by SEQ ID NO: 2 or 4.

The inventions listed as Groups I-X do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of invention I is the specific nucleotide sequence of SEQ ID NO: 1 and 3, the vector comprising the sequence, the host cell comprising the vector, and a method of using the sequence to make a protein.

The special technical feature of invention II is the specific amino acid sequence represented by SEQ ID NO: 2 and 4. This special technical feature is different from the special technical feature of invention I because the function of a nucleotide sequence is to encode a protein, whereas the function of an amino acid sequence is to perform a specific biological function. Because the inventions have different functions, they have different special technical features and therefore lack unity of invention.

The special technical feature of invention III is the specific amino acid sequence that represents an antibody with the ability to bind to a protein represented by SEQ ID NO: 2 or 4. This special technical feature is different from the special technical feature of invention I because the function of a nucleotide sequence is to encode a protein, whereas the function of an antibody is to recognize and bind to a protein. Because the inventions have different functions, they have different special technical features and therefore lack unity of invention.

The special technical feature of invention IV is the ability of the compound to inhibit the binding between Reg and the protein represented by SEQ ID NO: 2 and/or 4. This special technical feature is different from the special technical feature of invention I because the function of a nucleotide sequence is to encode a protein, whereas the function of the compound is to inhibit the binding of two proteins. Because the inventions have different functions, they have different special technical features and therefore lack unity of invention.

The special technical feature of invention V is the ability of the compound to promote a signal transduction event. This special technical feature is different from the special technical feature of invention I because the function of a nucleotide sequence is to encode a protein, whereas the function of the compound is to promote a signal transduction event. Because the inventions have different functions, they have different special technical features and therefore lack unity of invention.

The special technical feature of invention VI is the ability of the compound to inhibit a signal transduction event. This special technical feature is different from the special technical feature

Art Unit: 1636

of invention I because the function of a nucleotide sequence is to encode a protein, whereas the function of the compound is to inhibit a signal transduction event. Because the inventions have different functions, they have different special technical features and therefore lack unity of invention.

The special technical feature of invention VII is the process by which a compound is identified as having the ability to bind to a protein. This special technical feature is different from the special technical feature of invention I because the function of a nucleotide sequence is to encode a protein, which is technically different from the identification of a compound that binds to a protein. Because the inventions have different functions, they have different special technical features and therefore lack unity of invention.

The special technical feature of invention VIII is the process by which a compound is identified as having the ability to inhibit binding to a protein. This special technical feature is different from the special technical feature of invention I because the function of a nucleotide sequence is to encode a protein, which is technically different from the identification of a compound that inhibits binding to a protein. Because the inventions have different functions, they have different special technical features and therefore lack unity of invention.

The special technical feature of invention IX is the process by which a compound is identified as having the ability to promote a signal transduction event. This special technical feature is different from the special technical feature of invention I because the function of a nucleotide sequence is to encode a protein, which is technically different from the identification of a compound that promotes signal transduction. Because the inventions have different functions, they have different special technical features and therefore lack unity of invention.

The special technical feature of invention X is the process by which a compound is identified as having the ability to inhibit a signal transduction event. This special technical feature is different from the special technical feature of invention I because the function of a nucleotide sequence is to encode a protein, which is technically different from the identification of a compound that inhibits signal transduction. Because the inventions have different functions, they have different special technical features and therefore lack unity of invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Art Unit: 1636

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A. Lambertson whose telephone number is (703) 308-8365. The examiner can normally be reached on 6:30am to 4pm, Mon.-Fri., first Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel, Ph.D. can be reached on (703) 305-1998. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0196.

David A. Lambertson AU 1636

GERRY LEFFEŔŚ PRIMARY EXAMINER